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EASTERN EUROPEAN MANPOWER AND
PHYSICAL PRODUCTION, 1950-1955

This report was prepared as a part of the US contribution to a
NATO study comparing economic trends in the Free World and the
Sino-Soviet bloc. Other parts of the US contribution concerned
with East Europe are: E-5, Eastern European GNP, 1950-1955
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Eastern European Manpower and
Physical Production, 1950-1955

A. Population and Labor Force of the European Satellites

The total population of the seven European Satellites increased almost 4.9 percent between 1950 and 1955. Widely divergent trends were experienced among the countries, however. In Albania, for example, the total population increased 15 percent, while in East Germany the total population declined. Among the other countries the range was from a 10 percent increase in Poland to a 4.4 percent increase in Bulgaria.

Of a total of 94.5 million persons in 1955, almost 48 percent resided in Poland and East Germany, with the remaining 52 percent distributed among the five other Satellites.

The labor force of the Satellite countries was about 48 million persons in 1955. This represented an increase of 7.1 percent over 1950. Changes in the labor force experienced by the individual Satellites ranged from an increase of 13 percent in Poland to a decline of 6 percent in East Germany.

Without exception, the agricultural labor force declined relative to the total in the European Satellites from 1950 to 1955. In fact, with the exception of Poland and Bulgaria, the Satellites experienced a decline in the number of persons employed in agriculture. On the other hand, the non-agricultural labor force increased in all countries except East Germany and the average for the Satellites was almost 17 percent for the five year period.

The estimates of population and labor force presented in this report were prepared, where possible, from official data. The agricultural labor force is so defined as to exclude workers in forestry and fishing. These categories are included in the non-agricultural labor force.

TABLE 1

Population of the European Satellites, 1950-1955

			<u>Thousands (mid-year)</u>	
	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Albania	1220	1300	1340	1350
Bulgaria	7250	7370	7470	7570
Czechoslovakia	12400	12810	12950	13090
East Germany	18400	18000	17800	17500
Hungary	9330	9590	9690	9800
Poland	24700	26250	26760	27280
Rumania	16370	17020	17230	17430
Total	90140	92740	93640	94510

TABLE 2

Civilian Labor Force of the European Satellites, 1950-1955

			<u>Thousands (Annual Average)</u>	
	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Albania	525	530	534	540
Bulgaria	3720	3830	3990	4160
Czechoslovakia	5910	6330	6470	6560
East Germany	8330	8080	7955	7800
Hungary	4360	4820	4850	4850
Poland	12310	13465	13810	13965
Rumania	9870	10200	10270	10380
Total	45025	47255	47879	48255

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TABLE 3

Civilian Labor Force: Bulgaria

A.	<u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
	Agriculture	2870	2870	2920	3020
	Non-Agriculture	<u>850</u>	<u>960</u>	<u>1070</u>	<u>1140</u>
	Total	3720	3830	3990	4160
B.	<u>Percent</u>				
	Agriculture	77	75	73	72
	Non-Agriculture	23	25	27	28
C.	<u>Index (1950 = 100)</u>				
	Agriculture	100	100	102	105
	Non-Agriculture	100	113	126	134
	Total	100	103	107	112

TABLE 4

Civilian Labor Force: Czechoslovakia

A.	<u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
	Agriculture	2070	1610	1610	1710
	Non-Agriculture	<u>3840</u>	<u>4720</u>	<u>4860</u>	<u>4850</u>
	Total	5910	6330	6470	6560
B.	<u>Percent</u>				
	Agriculture	35	25	25	26
	Non-Agriculture	65	75	75	74
C.	<u>Index (1950 = 100)</u>				
	Agriculture	100	78	78	83
	Non-Agriculture	100	123	126	126
	Total	100	107	109	111

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TABLE 5

Civilian Labor Force: East Germany

A. <u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	2100	1670	1620	1610
Non-Agriculture	<u>6230</u>	<u>6410</u>	<u>6335</u>	<u>6190</u>
Total	8330	8080	7955	7800

B. <u>Percent</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	25	21	20	21
Non-Agriculture	75	79	80	79

C. <u>Index (1950 = 100)</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	100	80	77	77
Non-Agriculture	100	103	102	99
Total	100	97	95	94

TABLE 6

Civilian Labor Force: Hungary

A. <u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	2120	2040	2110	2070
Non-Agriculture	<u>2240</u>	<u>2780</u>	<u>2740</u>	<u>2780</u>
Total	4360	4820	4850	4850

B. <u>Percent</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	49	42	44	43
Non-Agriculture	51	58	56	47

C. <u>Index (1950 = 100)</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Agriculture	100	96	100	98
Non-Agriculture	100	124	122	124
Total	100	110	111	111

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TABLE 7

Civilian Labor Force: Poland

A.	<u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
	Agriculture	7260	7538	7674	7618
	Non-Agriculture	<u>5050</u>	<u>5927</u>	<u>6136</u>	<u>6347</u>
	Total	12310	13465	13810	13965
B.	<u>Percent</u>				
	Agriculture	59	56	56	54
	Non-Agriculture	41	44	44	46
C.	<u>Index (1950 = 100)</u>				
	Agriculture	100	104	106	105
	Non-Agriculture	100	117	122	126
	Total	100	109	112	113

TABLE 8

Civilian Labor Force: Rumania

A.	<u>Thousand Persons</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
	Agriculture	7170	7000	7000	7040
	Non-Agriculture	2700	3200	3270	3340
	Total	9870	10200	10270	10380
B.	<u>Percent</u>				
	Agriculture	73	69	68	68
	Non-Agriculture	27	31	32	32
C.	<u>Index (1950 = 100)</u>				
	Agriculture	100	98	98	98
	Non-Agriculture	100	118	121	124
	Total	100	103	104	105

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B. Agricultural Production in the European Satellites

Three Satellites; Poland, Bulgaria and Rumania, appear to have achieved pre-war levels of agricultural production. Czechoslovakia, East Germany and Hungary, however, have not achieved the pre-war production levels. For all Satellites the index of agricultural production in 1955 was above the 1950 level.

The estimates of the production of selected agricultural products presented in this report were derived, where possible, from official statements. In some cases, conflicting official claims existed. In these instances, estimates were made which, in general, conform to the trends indicated by the official figures.

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TABLE 9
Bulgaria: Agricultural Production

	Average 1935-39	1943	1951	1952	1953	1954	1955	Average 1951-55
Production of selected crops (thousand metric tons)								
Bread grains								
Wheat	2163	2295	2334	1993	2157	2264	2394	2228
Rye	1880	2041	2070	1755	1905	2000	2115	1969
Fodder grains								
Corn	283	254	264	238	252	264	279	259
Barley	1415	1455	1448	1366	1269	1357	1523	1298
Oats	906	889	880	440	744	308	1800	814
Potatoes	378	435	428	342	401	419	390	396
Rice	131	131	140	104	124	122	124	124
Cotton (ginned)	113	103	103	62	90	85	94	85
Wool (grease)	21	21	27	23	24	25	25	25
Sugar (raw)	13.3 ^{a/}	13.3 ^{b/}	12.4	10.0	14.0	18.5	18.5	18.5
	22	74	62	50	55	13.6	14.4	13.6
				70	62	13.6	14.4	13.6
Numbers of livestock (thousands on 1 January)								
Cattle	1822 ^{c/}	1598	1500	1575	1508	1563	1599	1550
Hogs	833	825	1500	1445	1390	1335	1469	1423
Sheep and goats	9558	9810	9305	9121	8863	8600	8699	8720
Horses	532	508	513	495	477	460	460	481

a. Average, 1934-38
b. 1938
c. Average, 1935-37

TABLE 10
Czechoslovakia: Agricultural Production

	Average 1935-39	1943	1951	1952	1953	1954	Average 1951-55
Production of selected crops (thousand metric tons)							
Bread grains	3127	2663	2670	2547	1906	2432	2453
Wheat	1550	1415	1430	1416	1521	1484	1401
Rye	1577	1273	1190	1131	1103	802	1052
Fodder grains	2649	2130	2362	2251	2359	2638	2421
Corn a/	287	306	294	224	219	417	307
Barley	1128	925	1054	1067	1200	1114	1146
Oats	1234	907	1014	960	1025	865	963
Potatoes	10102	6550	4506	5069	3100	6000	5441
Rice	0	0	0	0	0	0	0
Cotton (ginned)	0	0	0	0	0	0	0
Wool (grease)	1.1b/	0.8	1.2	1.5	1.5	2.0	1.6
Sugar (raw)	643	634	725	625	653	642	659
Numbers of livestock (thousands on 1 January)							
Cattle	4475	3276	4213	4213	4064	4064	4126
Hogs	3174	2566	3300	4200	3307	3307	3698
Sheep	492c/	336	530	696	700	892	742
Horses	654	630	630	620	620	620	624
Goats	994	922	1013	1000	1000	1003	1003

a. Includes miscellaneous grains

b. 1933

c. Average, 1934-38

TABLE 11

East Germany: Agricultural Production

	1935-39	1943	1951	1952	1953	1954	1955	Average 1951-55
Production of selected crops (thousand metric tons)								
Bread grains	3723	3025	3623	3276	2824	2683	3028	3087
Wheat	1589	1150	1157	1053	350	848	1043	997
Rye	2134	1875	2466	1944	1835	1980	2090	2007
Fodder grains	2769	1550	2306	1942	1843	1932	2077	2032
Miscellaneous (including corn)	ra.	ra.	280	293	283	270	290	283
Barley	1678	550	573	581	598	535	616	581
Oats	1691	1000	1453	1084	1061	1043	1076	1143
Potatoes	13627	11551	11152	10162	10400	11700	10500	10783
Rice	0	0	0	0	0	0	0	0
Cotton (ginned)	0	0	0	0	0	0	0	0
Wool (grease)	6.28/	3.0	3.6	3.9	4.6	4.9	5.5	4.5
Sugar (raw)	872	680	750	539	750	550	650	648

Numbers of livestock (thousands on 1 January)

Cattle	357 ^a /b/	2783	3615	3801	3877	3796	3776	3793
Eggs	574 ^a /b/	2074	7033	9099	8208	8208	7693	8367
Sheep and goats	222 ^a /b/	1758	2698	2813	2747	2679	2842	2722
Horses	810b/	650	718	743	750	731	727	711

a. 1938.
b. Average, 1934-1933.

MAP-12
Hungary: Agricultural Production

	Average 1935-39	1948	1951	1952	1953	1954	1955	Average 1951-55
Production of selected crops (thousand metric tons)								
Bread grains	3223	2350	3272 ^{a/}	2273	2399	2036	2418	2430
Wheat	2482	1715	2522	1764	1558	1903	1925	1925
Rye	745	635	750	509	520	478	515	554
Fodder grains	3235	3697	3462	1930	3037	2648	306	2837
Corn	2337	2667	2424	215	2347	1972	2429	2077
Barley	657	740	768	536	543	513	632	608
Oats	291	290	270	229	147	163	195	201
Potatoes	2166	2068	2020	982	1650	2080	1722	1722
Rice	0	0	4.0	37	47	25	39	39
Cotton (ginned)	0	36	4.0	2.4	2.5	2.5	2.1	2.1
Wool (grease)	6.2 ^{b/}	2.0	2.8	0.8	3.3	3.6	4.3 ^{c/}	4.3 ^{c/}
Sugar (raw)	113	245	260	210	287	274	320	320
Numbers of livestock (thousands in March)								
Cattle	1905	1675	1750	1900	1715	1725	1761	1761
Hogs	3620	2350	4300	4700	4950	5300	4330	4330
Sheep	1490	591	727	987	937	1094	1018	1018
Horses	303 ^{d/}	216	580	620	620	620	612	612
Goats	66 ^{d/}	38	88	88	88	88	88	88

a. An alternative source reports production of 2,900,000 metric tons.
 b. 1938
 c. An alternative estimate for numbers of sheep is 1,700,000. This figure is derived from a report
 d. of wool production of 5,300 metric tons, which may include more than sheep wool (e.g. mohair).

TABLE 13
Poland: Agricultural Production

Production of selected crops (thousand metric tons)	Average 1935-39						Average 1951-55
	1943	1945	1951	1952	1953	1954	
Bread grains							
Wheat	9223	7920	7930	7361	6708	7346	3444
Rye	2014	1620	1850	1631	1854	2002	1964
Fodder grains	7214	6300	6030	5730	4654	5344	6480
Corn	4616	3112	3183	3593	3291	3159	3271
Barley	regl	negl	negl	regl	negl	negl	negl
Oats	1655	1010	1143	11220	1124	1036	1179
Potatoes	2961	2402	2045	2378	2167	2073	2092
Rice	3798	2671	27200	23660	3101	35662	2151
Cotton (ginned)	0	0	0	0	0	0	25320
Wool (grease)	0	0	0	0	0	0	28329
Sugar (raw)	3.15/	1.8	3.4	5.2	6.7	9.2	6.3
893	624	838	826	1107	1036	930	111
Numbers of livestock (thousands in June)							
Cattle	99248/						
Hogs	5748	6500	7255	7385	7600	7636	7301
Sheep and goats	9634a/	4626	7320	8518	9730	9783	9023
Horses	2123a/	2006	2300	3520	4312	4850	3992
	3149a/	2297	2833	2720	2720	2747	

a. 1938

TABLE 14
Rumania: Agricultural Production

	Average 1935-39	1948	1951	1952	1953	1954	1955	Average 1951-55
Production of selected crops (thousand metric tons)								
Bread grains								
Wheat	3302	2712	2867	2072	2317	2178	3300	2547
Rye	3048	2585	2725	1966	2191	2058	3120	2412
Fodder grains								
Corn	254	127	142	106	126	120	180	135
Barley	5523	4983	5029	2648	3380	4472	5310	4168
Oats	4369	4068	4105	2088	2570	3800	4422	3395
Potatoes	610	414	457	259	390	360	500	393
Rice	544	501	477	301	420	312	388	380
Cotton (ginned)	1308	1224	2117	1348	1588	1646	2188	1776
Wool (grease)	1	16	30	22	26	48	58	37
Sugar (raw)	0.1 ^a	3.5	7.5	5.5	5.0	7.5	6.6	7.2
	18.5 ^b	18.4	19.0	19.6	18.1	26.2	21.6	19.7
	66.2	112	125	95	106	134	174	127
Numbers of livestock (thousands on 31 December)								
Cattle								
Hogs	3536 ^c	4184	4377	4567	4674	4767	4800	4637
Sheep and goats	2511 ^c	1590	2500	3000	3664	3650	3865	3336
Horses	9748 ^c	11506	11210	11510	10914	11796	12601	11606
	14922 ^c	998	1100	1000	1025	1025	1042	1042

- a. Average 1934-38
- b. 1938
- c. Average, 1935-37

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C. Industrial Production in the European Satellites

Without exception, the European Satellites achieved a substantial increase in industrial production from 1950 to 1955. Reflecting the scale of priorities introduced by Communism, emphasis was placed upon the growth of heavy industry and its supporting sectors in the economy light industry, a residual claimant on resources, grew much more slowly.

As in the case of the estimates of agricultural production, the estimates of the production of industrial commodities proceed, where possible, from official statements. In the case of differing data from official sources, estimates were made which conform to the trends indicated by the official figures.

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TABLE 15
Bulgaria: Industrial Production

	Units	Pre-War 1938	1948	1950	1953	1954	1955
Hard coal	000 metric tons	145	130	171	213	223	298
Brown coal and lignite	000 metric tons	1941	4147	5435	8128	3697	9371
Crude petroleum	000 metric tons		0	0	0	0	155
Electric power	billion kwh			.548	1.6	1.3	2.1
Crude steel	000 metric tons	21	26	26	63	137	142
Copper (refined)	metric tons	.232	.180	.180	6400	7400	
Aluminum	metric tons		1000	1900	0	0	
Sulphuric acid (100% acid basis)	000 metric tons	0	0	0	0	0	
Cement	000 metric tons	0	0	0	0	0	
Commercial vehicles							
Trucks	units	130	380	594	714	793	325
Buses	units	0	0	0	0	0	
Passenger cars	units	0	0	0	0	0	
Merchant vessels a/	000 GRN	0	0	0	0	0	
Lumber	million cubic meters						
Total footwear	million pairs	3.73	6.00	7.00	10.50	10.75	10.75
Leather	1.83/	1.3	1.7	2.5	2.7	2.9	
Cotton fabric	million linear meters	na/	.5	.9	1.3	1.4	1.5
Tractors	units	335/	66	84	115	120	135
Mainline locomotives	units	0	0	0	0	0	0
Mainline freight cars (2-axle equivalent units)	units	0	1	0	0	0	0
Machine tools	units	0	50	100	600	600	1000

a. Maritime vessels excluding fishing vessels.

b. 1939

TABLE 16
Czechoslovakia: Industrial Production

	Units	Pre-War 1938	1948	1950	1953	1954	1955
Hard coal	000 metric tons	15336	17745	18456	20341	21561	22100
Brown coal and lignite	000 metric tons	16027	23590	27506	34322	38700	40700
Crude petroleum	000 metric tons		30	63	120	130	150
Electric power	billions kWh		4.05	7.52	9.27	13.6	15.0
Crude steel	000 metric tons		2300	2500	2700	3700	4300
Copper (refined)	metric tons		600	1000	1000	3000	4500
Aluminum	metric tons		0	0	0	7000	23000
Sulphuric acid (100% acid basis)	000 metric tons	130	195.6	204.8	284.6	314.0	363.2
Cement	000 metric tons	1273	1653	1991	2404	2644	2938
Commercial vehicles							
Trucks	units	1600	7000	9000	11500	11000	10500
Buses	units	na	na	400	1000	na	na
Passenger cars	units	11400	16200	24200	12000	12000	12500
Merchant vessels a/	000 GRT						
Lumber	million cubic meters			0	0	0	0
Total footwear	million pairs	13.0	10.5	12.0	11.0	10.5	10.5
Leather	na/b/	55.0b/	64.4	69.5	72.5	73.5	63.0
Cotton fabric	million linear meters	377b/	27.7	29.9	33.7	34.7	29.6
Tractors	units	2098	230	361	347	327	340
Mainline locomotives	units	301	10000	13000	14000	12300	1400
Mainline freight cars (2-axle equivalent units)	units	74b/	11000	14000	15700	15700	15700
Machine tools	units	7000	11300	13500	14300	15000	15700

a. Maritime vessels excluding fishing vessels.
b. 1937

TABLE 17

East Germany: Industrial Production

Units	Pre-War 1938	1948	1950	1953	1954	1955
Hard coal	000 metric tons	3513	2848	2807	2638	2648
Brown coal and lignite	000 metric tons	119647	110863	137040	172152	181900
Crude petroleum	000 metric tons	0	0	0	0	0
Electric power	billion kwh	18.0	15.4	19.5	24.2	26.9
Crude steel	000 metric tons	1695	332	1000	2450 ^{a/}	2600 ^{a/}
Copper (refined)	metric tons	29500	14700	27800	39700	42500
Aluminum	metric tons	78700	400	1900	16300	26000
Sulphuric acid (100% acid basis)	000 metric tons	447.1	135.7	279.8	432.4	531.3
Cement	000 metric tons	2500	918	1400	2405	2597
Commercial vehicles	units					
Trucks	units	267	1440	10350	11380	11380
Buses	units	na	na	na	na	na
Passenger cars	units	na	na	na	na	na
Merchant vessels b/	000 GRT	1260	7150	15432	16500	16600
Lumber	million cubic meters	16.0	18.50	14.6	11.7	46.3
Total footwear	million pairs	40.0 ^{c/}	17.4	32.3	13.15	61.1
Leather		15.3	6.0	3.0	43.2	12.90
Cotton fabric	million linear meters	na	na	17.5	45.0	40.7
Tractors	units	na	100	19.0	19.0	17.6
Mainline locomotives	units	na	5170	227.3	264.9	306.2
Mainline freight cars	units	0	7435	8780	6600	6600
(2-axle equivalent units)	units	na	1400	7300	11600	1
Machine tools	units	38000	7600	16000	26000	28000
						30000

- a. Official reports apparently fail to include cast steel produced in certain major machine building plants, thus this estimate is somewhat above the reported figures.
- b. Maritime vessels, excluding fishing vessels.
- c. 1936.

TABLE 18
Hungary: Industrial Production

	Units	Pre-War 1938	1948	1950	1953	1954	1955
Hard coal	000 metric tons	1039	1238	11406	2103	2550	2730
Brown coal and lignite	000 metric tons	8321	9377	11862	19133	19465	20020
Crude petroleum	000 metric tons	430	450	780	1200	1600	1600
Electric power	billion kwh	1.40	2.02	4.6	4.83	5.45	5.45
Crude steel	000 metric tons	647	750	1043	1543	1492	1600
Copper (refined)	metric tons	negl	negl	negl	negl	negl	negl
Aluminum	metric tons	1520	9400	21650	30000	32300	37000
Sulphuric acid (100% acid basis)	000 metric tons	40.0	21.4	58.0	126.5	110.0	111.0
Cement	000 metric tons	342	316	796	1100	967	1200
Commercial vehicles							
Trucks	units	553	375	1500	5200 ^{a/}	5000 ^{a/}	4000 ^{a/}
Buses	units	na	na	500	300 ^{a/}	1600 ^{a/}	1600 ^{a/}
Passenger cars	units	237	0	0	0	0	7
Merchant vessels b/	000 GRT						
Lumber	million cubic meters	3.1	3.0	13.8	17.2	16.3	15.6
Total footwear	million pairs	4.7	4.5	3.0	3.0	3.0	3.0
Leather		3.5	4.2	7.2	9.6	11.7	13.9
Cotton fabric	million linear meters	185.0	220.5	6.7	8.4	10.5	12.3
Tractors	units	220.5	282.0	282.0	334.0	362.2	373.7
Mainline locomotives	na	900	1440	1000	3740	4000	4000
Mainline freight cars	units	70	170	100	135	160	185
(2-axle equivalent units)	units	3000	7200	10000	9000	9000	9000
Machine tools	units	30	550	1300	3600	4000	6000

a. Conflicting official statements indicate that this estimate represents a maximum.
 b. The lower statement implies a total of 7133 trucks, buses and trailers in 1955.
 The lower statement excludes fishing vessels.

TABLE 19
Poland: Industrial Production

Units	Pre-War 1938	1943	1950	1953	1954	1955
Hard coal						
Brown coal and lignite						
Crude petroleum	60393 5000	70262 5000	78001 4800	88700 5600	91600 5900	94500 6000
Electric power			130 162	139 184	139 184	139 180
Crude steel	6.96 1400	7.51 2000	9.41 2500	13.6 3600	15.4 4000	17.7 4500
Copper (refined)	na	na	na	12500 17000	20500 25000	17000 20000
Aluminum	0	0	0	0	0	0
Sulphuric acid (100% acid basis)	196.0 222.3	196.0 234.6	222.3 2500	370.3 3294	419.2 3403	449.9 3300
Cement						
Commercial vehicles						
Trucks	320 ^{a/}	0	960	10935 160	12593 306	12472 na
Buses			na	1563 1670	6000	6000
Passenger cars			0	45.3 57.2	70.0 70.0	70.0 70.0
Merchant vessels b/			5.6 16.30	45.3 13.43	14.30 14.30	14.30 14.30
Lumber			12.97 8.6	14.40 14.9	14.30 40.3	14.30 41.6
Total Footwear			8.6 14.9	40.3 41.6	41.6 44.1	41.6 44.1
Leather			4.9 2.3	8.5 20.8	23.2 23.2	23.2 24.8
Cotton fabric			8.5 344.0	20.8 432.0	526.1 564.9	526.1 564.9
Tractors			20.8 3800	499.5 6900	7808 8052	7808 8052
Mainline locomotives			499.5 3800	6900 244	278 278	278 278
Mainline freight cars (2 axle equivalent units)			215 16633	12496 17136	15431 16043	15431 16043
Machine tools			215 16633	12496 17136	15431 16043	15431 16043
units	1160	3290	4100	9130	11900	13000

a. 1937

b. Maritime vessels excluding fishing vessels.

TABLE 20
Romania: Industrial Production

Units	Pre-War 1938	1943	1950	1953	1954	1955
Hard coal	000 metric tons	330	230	370	535	620
Brown coal and lignite	000 metric tons	2496	2804	316	4010	530
Crude petroleum	000 metric tons	6600	4000	5100	9100	9800
Electric power	billion kwh	1.15	1.50	2.17	3.4	4.0
Crude steel	000 metric tons	280	340	555	627	765
Copper (refined)	metric tons	580	440	700	2300	3700
Aluminum	metric tons	0	0	0	2200	2200
Sulphuric acid (100% acid basis)	000 metric tons	44.0	26.4	51.6	55.6	73.6
Cement	000 metric tons	500	620	1020	1096	1600
Commercial vehicles					2000	
Trucks	units	0	0	100	250	2000
Buses	units	0	0	0	0	na
Passenger cars	units	0	0	0	0	0
Merchant vessels ^{a/}	000 GRT	negl	negl	negl	negl	negl
Lumber	million cubic meters	19.0	15.0	15.80	17.40	16.90
Total footwear	million pairs	4.03	2.83	11.20	11.73	13.4
Leather	2.6	2.6	8.58	9.0	10.3	17.7
Cotton fabric	million linear meters	3.6	114.3	207.2	230.6	301.4
Tractors	units	148.6	940	3320	4650	5000
Mainline locomotives	units	2000	na	90	60	100
Mainline freight cars	units	4000	na	4000	5000	6000
(2-axle equivalent units)	units	0	60	300	900	1200
Machine tools						1500

a. Maritime vessels excluding fishing vessels

TABLE 21

Sources of Commercial Energy in the
European Satellites, 1938, 1950 and 1955
 (Millions metric ton coal equivalent)*

	<u>1938</u>	<u>1950</u>	<u>1955</u>
A. European Satellites			
Hard coal	90.0	101.3	124.1
Brown coal and lignite	53.6	69.1	103.1
Crude petroleum	12.2	7.7	17.5
Natural gas	2.6	2.8	5.1
Hydroelectric power	0.8	1.7	2.8
TOTAL	159.2	182.6	252.6
B. Albania			
Hard coal	0.0	0.0	0.0
Brown coal and lignite	0.0	0.0	0.1
Crude petroleum	0.2	0.2	0.4
Natural gas	0.0	0.0	0.0
Hydroelectric power	0.0	0.0	0.0
TOTAL	0.2	0.2	0.5
C. Bulgaria			
Hard coal	0.1	0.2	0.5
Brown coal and lignite	0.6	1.8	3.0
Crude petroleum	0.0	0.0	0.2
Natural gas	0.0	0.0	0.0
Hydroelectric power	0.1	0.2	0.6
TOTAL	0.8	2.2	4.3
D. Czechoslovakia			
Hard coal	15.8	18.5	23.2
Brown coal and lignite	9.6	16.5	24.4
Crude petroleum	0.0	0.1	0.2
Natural gas	0.0	0.0	0.1
Hydroelectric power	0.4	0.8	1.1
TOTAL	25.8	35.9	49.9
E. East Germany			
Hard coal	3.5	2.8	2.6
Brown coal and lignite	35.9	41.1	60.0
Crude petroleum	0.0	0.0	0.1
Natural gas	0.0	0.0	0.0
Hydroelectric power	0.2	0.2	0.3
TOTAL	39.6	44.1	63.0
F. Hungary			
Hard coal	1.0	1.4	2.7
Brown coal and lignite	5.0	7.1	12.0
Crude petroleum	0.1	0.6	2.1
Natural gas	0.0	0.1	0.2
Hydroelectric power	0.0	0.0	0.0
	6.1	9.2	17.0

* Conversion factors for brown coal, crude petroleum, natural gas from UN, Statistical Yearbook, 1955, pp. 607-8.

[REDACTED]
TABLE 21 cont.Sources of Commercial Energy in the
European Satellites, 1938, 1950 and 1955
(Millions metric ton coal equivalent)*

	<u>1938</u>	<u>1950</u>	<u>1955</u>
G. <u>Poland</u>			
Hard coal	69.3	78.0	94.5
Brown coal and lignite	1.7	1.4	1.8
Crude petroleum	0.6	0.2	0.2
Natural gas	0.6	0.1	0.3
Hydroelectric power	0.0	0.4	0.6
TOTAL	72.2	80.1	97.4
H. <u>Rumania</u>			
Hard coal	0.3	0.4	0.6
Brown coal and lignite	0.8	1.2	1.8
Crude petroleum	11.3	6.6	14.3
Natural gas	2.0	2.6	4.5
Hydroelectric power	0.1	0.1	0.2
TOTAL	14.5	10.9	21.4

* Conversion factors for brown coal, crude petroleum, natural gas from UN, Statistical Yearbook, 1955, pp. 607-8.

TABLE 22

Growth of Output of Selected Commodities
(1938 = 100)

	<u>1938</u>	<u>1948</u>	<u>1950</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
Hard coal	100.0	102.5	112.2	127.1	132.2	137.6
Brown coal and lignite	100.0	101.0	123.4	158.6	168.4	182.8
Electric power	100.0	103.5	136.3	188.9	207.3	229.8
Crude petroleum	100.0	42.5	63.4	111.3	123.0	142.3
Crude steel	100.0	93.7	123.3	190.2	207.3	224.2
Copper (refined) a/	100.0	55.7	107.4	172.5	252.0	336.4
Aluminum (primary)	100.0	12.2	29.4	59.0	87.9	122.4

a. Output in Czechoslovakia and Poland in 1938 (for which estimates are not available) is assumed to be negligible.

